

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P393795

Luminaire Tested: **I3-CL-50L840-1D-UNV-STD-W-4**

Issue Date: 3/30/2020

Test Information

Test Method: LM-79-08
Report Number: P393795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2001-656-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I3-CL-50L840-1D-UNV-STD-W-4
Description: CORELITE I3, CLEAR TOP COVER
5000 LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

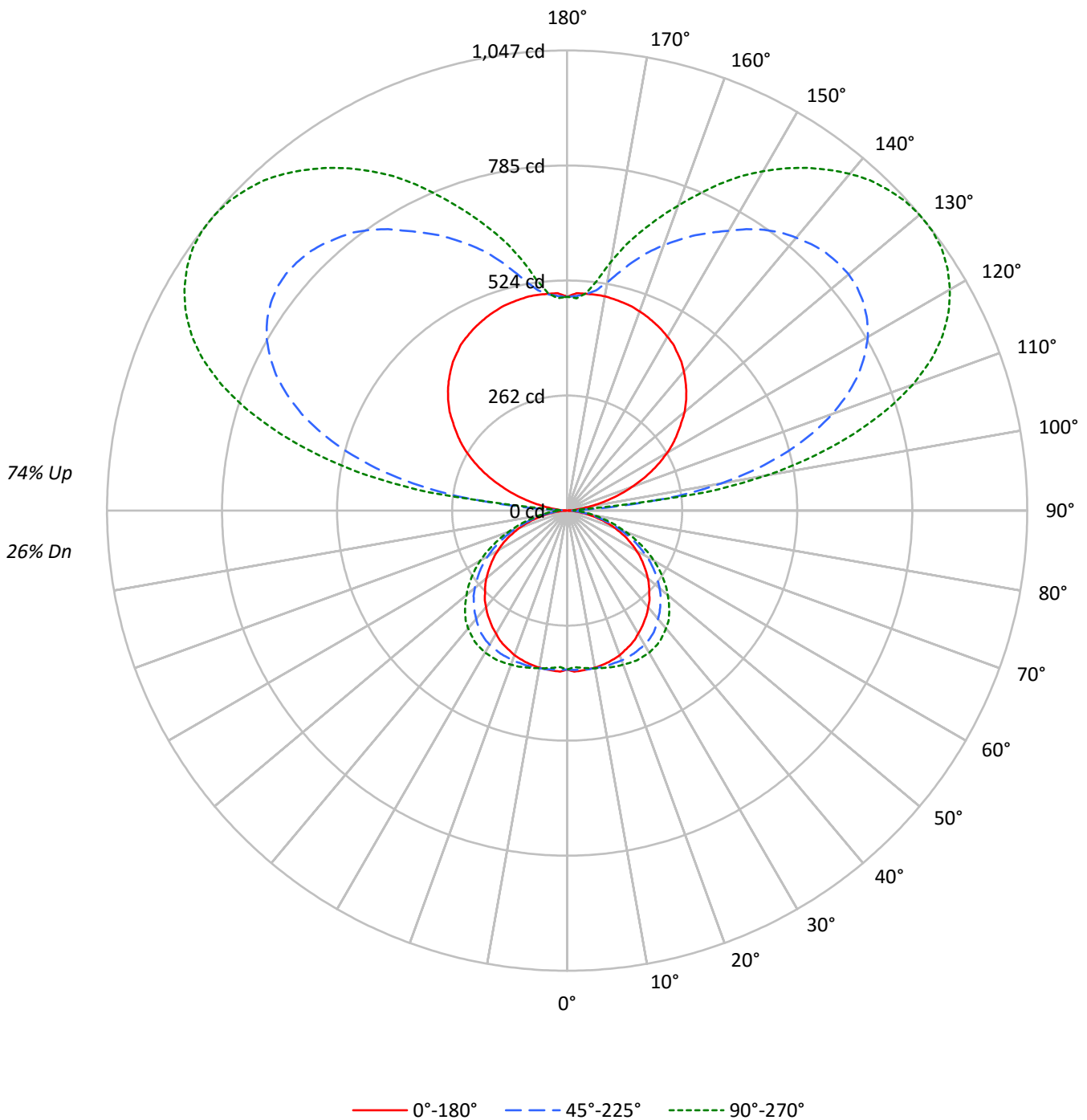
Lumens per Lamp: N/A
Luminaire Lumens: 4766.2 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.52 / 1.54
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 3.92' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 33.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P393795
CATALOG NUMBER: I3-CL-50L840-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P393795

CATALOG NUMBER: I3-CL-50L840-1D-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26
1	92	88	84	81	82	79	75	73	61	59	57	45	43	42	30	29	28	22
2	84	77	71	65	74	68	63	59	53	50	47	39	37	35	26	25	24	18
3	76	67	60	54	68	60	54	49	47	42	39	34	32	29	23	21	20	15
4	70	59	51	45	62	53	46	41	41	37	33	30	27	25	20	18	17	13
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	15	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	17	14	14	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1988	1988	1988
5°	2009	1957	1925
10°	2011	1942	1920
15°	2013	1935	1930
20°	2017	1936	1947
25°	2014	1938	1973
30°	2002	1941	1986
35°	1997	1930	1988
40°	1990	1888	1963
45°	1970	1843	1914
50°	1952	1783	1829
55°	1912	1693	1724
60°	1864	1574	1591
65°	1789	1413	1411
70°	1660	1203	1194
75°	1433	957	959
80°	1112	680	702
85°	653	420	471



TEST NUMBER: P393795

CATALOG NUMBER: I3-CL-50L840-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.6	0.7
10°-20°	102.8	2.2
20°-30°	164.8	3.5
30°-40°	210.8	4.4
40°-50°	229.9	4.8
50°-60°	215.4	4.5
60°-70°	167.1	3.5
70°-80°	95.8	2.0
80°-90°	30.6	0.6
90°-100°	122.9	2.6
100°-110°	477.8	10.0
110°-120°	650.6	13.6
120°-130°	675.3	14.2
130°-140°	599.0	12.6
140°-150°	464.8	9.8
150°-160°	310.2	6.5
160°-170°	165.3	3.5
170°-180°	48.4	1.0
0°-30°	302.3	6.3
0°-40°	513.1	10.8
0°-60°	958.3	20.1
0°-90°	1251.8	26.3
90°-120°	1251.4	26.3
90°-150°	2990.5	62.7
90°-180°	3514.0	73.7
0°-180°	4766.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	362	362	362	362	362	
5°	366	362	363	362	359	35
15°	358	356	364	369	369	101
25°	339	341	359	372	376	156
35°	306	313	341	359	366	192
45°	264	276	300	319	328	204
55°	212	223	244	260	266	189
65°	150	156	171	182	186	148
75°	78	82	90	99	101	84
85°	15	18	27	35	36	18
90°	1	4	9	13	15	2
95°	15	87	119	24	23	20
105°	101	306	519	617	676	108
115°	212	473	731	859	943	209
125°	306	558	823	967	1040	274
135°	384	587	831	975	1032	296
145°	437	587	780	906	952	274
155°	471	555	691	784	820	217
165°	490	510	587	643	659	139
175°	495	492	494	496	496	47
180°	486	486	486	486	486	



TEST NUMBER: P393795

CATALOG NUMBER: I3-CL-50L840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7
2.5°	366.8	365.5	365.5	363.0	363.0	361.7	361.7	361.7	361.7	361.7	363.0
5°	365.5	365.5	364.2	363.0	363.0	361.7	361.7	361.7	361.7	361.7	363.0
7.5°	364.2	364.2	363.0	361.7	361.7	361.7	361.7	361.7	361.7	361.7	364.2
10°	363.0	363.0	361.7	360.4	360.4	360.4	360.4	361.7	361.7	361.7	364.2
12.5°	360.4	359.1	359.1	357.8	357.8	357.8	359.1	359.1	360.4	361.7	364.2
15°	357.8	357.8	356.5	355.3	356.5	356.5	356.5	357.8	359.1	360.4	364.2
17.5°	354.0	354.0	352.7	352.7	352.7	354.0	354.0	355.3	357.8	360.4	363.0
20°	350.1	348.9	348.9	348.9	350.1	350.1	351.4	354.0	355.3	359.1	363.0
22.5°	343.7	345.0	343.7	343.7	345.0	346.3	347.6	350.1	352.7	356.5	360.4
25°	338.6	338.6	338.6	338.6	341.2	341.2	343.7	346.3	350.1	354.0	359.1
27.5°	332.2	332.2	332.2	333.5	334.7	336.0	337.3	341.2	345.0	350.1	355.3
30°	323.2	323.2	323.2	323.2	327.0	328.3	330.9	336.0	339.9	346.3	352.7
32.5°	315.5	315.5	315.5	316.8	319.4	320.6	323.2	329.6	334.7	341.2	347.6
35°	306.5	306.5	307.8	307.8	311.7	312.9	315.5	320.6	325.8	333.5	341.2
37.5°	297.6	297.6	298.8	300.1	302.7	305.2	307.8	312.9	318.1	324.5	332.2
40°	287.3	287.3	288.6	289.9	293.7	296.3	298.8	304.0	309.1	315.5	321.9
42.5°	277.0	277.0	278.3	279.6	283.4	286.0	288.6	295.0	300.1	306.5	311.7
45°	264.2	265.5	266.8	269.3	273.2	275.7	278.3	283.4	289.9	295.0	300.1
47.5°	252.7	253.9	255.2	257.8	261.6	264.2	266.8	271.9	277.0	282.2	288.6
50°	239.8	241.1	242.4	245.0	248.8	251.4	253.9	259.1	264.2	268.1	274.5
52.5°	225.7	227.0	228.3	230.9	236.0	237.3	239.8	245.0	248.8	253.9	259.1
55°	211.6	212.9	214.2	216.8	220.6	223.2	224.4	229.6	233.4	238.6	243.7
57.5°	197.5	198.8	200.1	202.6	205.2	207.8	209.1	212.9	218.0	221.9	227.0
60°	182.1	183.4	184.7	186.0	189.8	191.1	192.4	196.2	200.1	205.2	209.1
62.5°	166.7	166.7	168.0	169.3	173.1	174.4	175.7	178.3	183.4	186.0	189.8
65°	150.1	150.1	151.3	152.6	155.2	156.5	157.8	160.3	164.2	166.7	170.6
67.5°	132.1	132.1	133.4	134.7	137.2	138.5	138.5	142.4	144.9	147.5	150.1
70°	115.4	115.4	116.7	116.7	118.0	119.3	120.6	123.1	124.4	128.3	129.5
72.5°	97.5	97.5	97.5	97.5	100.0	100.0	101.3	103.9	105.2	107.7	110.3
75°	78.2	78.2	79.5	79.5	80.8	82.1	83.4	84.6	87.2	88.5	89.8
77.5°	61.6	60.3	61.6	62.8	64.1	64.1	65.4	66.7	68.0	70.5	71.8
80°	43.6	43.6	43.6	44.9	46.2	46.2	47.5	48.7	50.0	52.6	53.9
82.5°	28.2	28.2	29.5	29.5	30.8	32.1	32.1	33.3	34.6	37.2	38.5
85°	15.4	15.4	15.4	16.7	18.0	18.0	19.2	20.5	23.1	24.4	26.9
87.5°	5.1	5.1	6.4	7.7	9.0	9.0	10.3	11.5	12.8	15.4	16.7
90°	1.3	1.3	1.3	2.6	2.6	3.8	3.8	5.1	6.4	7.7	9.0
92.5°	5.1	9.0	14.1	20.5	19.2	20.5	14.1	9.0	9.0	9.0	10.3
95°	15.4	23.1	37.2	59.0	77.0	87.2	96.2	105.2	123.1	124.4	119.3
97.5°	30.8	42.3	68.0	96.2	128.3	144.9	157.8	184.7	212.9	230.9	252.7
100°	51.3	68.0	101.3	139.8	177.0	198.8	219.3	257.8	292.4	323.2	356.5
102.5°	75.7	94.9	136.0	183.4	229.6	253.9	275.7	320.6	368.1	409.1	445.0
105°	101.3	123.1	171.9	225.7	278.3	306.5	333.5	382.2	432.2	477.1	519.4
107.5°	129.5	152.6	205.2	265.5	324.5	356.5	386.0	438.6	491.2	540.0	584.8
110°	156.5	182.1	237.3	302.7	369.4	401.4	430.9	488.7	543.8	595.1	642.6



TEST NUMBER: P393795

CATALOG NUMBER: I3-CL-50L840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	184.7	211.6	266.8	338.6	406.6	439.9	470.7	532.3	590.0	642.6	690.0
115°	211.6	237.3	295.0	369.4	438.6	473.3	506.6	569.5	629.7	682.3	731.1
117.5°	237.3	261.6	320.6	395.0	466.8	501.5	534.8	600.2	660.5	715.7	763.1
120°	262.9	284.7	348.9	416.8	489.9	524.6	559.2	624.6	686.2	741.3	790.0
122.5°	286.0	306.5	369.4	436.1	507.9	543.8	577.1	643.8	706.7	761.8	809.3
125°	306.5	325.8	388.6	451.5	523.3	557.9	592.5	657.9	720.8	774.7	823.4
127.5°	327.0	346.3	402.7	466.8	533.5	569.5	602.8	668.2	729.8	784.9	832.4
130°	348.9	363.0	416.8	481.0	543.8	577.1	611.8	674.6	734.9	788.8	836.2
132.5°	366.8	379.6	430.9	492.5	551.5	583.6	614.3	677.2	737.5	788.8	834.9
135°	383.5	393.7	441.2	502.8	557.9	587.4	616.9	675.9	734.9	786.2	831.1
137.5°	398.9	409.1	450.2	510.5	563.0	588.7	616.9	672.1	728.5	779.8	822.1
140°	413.0	420.7	457.9	514.3	565.6	590.0	614.3	665.6	718.2	768.2	810.6
142.5°	427.1	433.5	464.3	516.9	566.9	590.0	613.1	657.9	706.7	755.4	797.7
145°	437.3	443.8	469.4	518.1	565.6	587.4	607.9	650.3	693.9	738.7	779.8
147.5°	448.9	454.0	474.5	515.6	561.8	582.3	601.5	640.0	679.8	720.8	759.3
150°	456.6	461.7	477.1	513.0	555.3	574.6	593.8	629.7	665.6	701.6	734.9
152.5°	464.3	468.1	481.0	509.2	547.6	565.6	583.6	618.2	651.5	683.6	713.1
155°	470.7	474.5	483.5	506.6	538.7	555.3	572.0	605.4	636.1	664.4	691.3
157.5°	477.1	479.7	486.1	502.8	528.4	543.8	559.2	588.7	616.9	645.1	666.9
160°	482.2	483.5	488.7	501.5	519.4	531.0	545.1	572.0	597.7	622.0	642.6
162.5°	487.4	487.4	491.2	498.9	511.7	519.4	529.7	552.8	575.9	597.7	616.9
165°	489.9	489.9	492.5	497.6	505.3	510.5	516.9	532.3	550.2	569.5	587.4
167.5°	492.5	492.5	493.8	496.3	501.5	504.0	506.6	516.9	528.4	542.5	556.6
170°	495.1	493.8	493.8	496.3	497.6	498.9	500.2	505.3	510.5	519.4	527.1
172.5°	495.1	493.8	493.8	495.1	495.1	495.1	495.1	496.3	497.6	502.8	505.3
175°	495.1	493.8	493.8	493.8	493.8	492.5	492.5	492.5	492.5	492.5	493.8
177.5°	495.1	493.8	492.5	492.5	491.2	491.2	489.9	489.9	488.7	488.7	488.7
180°	486.1	486.1	486.1	486.1	486.1	486.1	486.1	486.1	486.1	486.1	486.1



TEST NUMBER: P393795

CATALOG NUMBER: I3-CL-50L840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7	361.7
2.5°	363.0	363.0	361.7	361.7	360.4	360.4	359.1	357.8	356.5	356.5
5°	364.2	363.0	361.7	361.7	361.7	360.4	360.4	360.4	359.1	359.1
7.5°	364.2	364.2	364.2	363.0	363.0	363.0	363.0	363.0	361.7	361.7
10°	365.5	365.5	365.5	365.5	365.5	365.5	365.5	364.2	364.2	364.2
12.5°	365.5	365.5	365.5	366.8	366.8	366.8	366.8	366.8	366.8	366.8
15°	366.8	366.8	368.1	368.1	369.4	369.4	370.7	370.7	370.7	369.4
17.5°	365.5	366.8	368.1	369.4	370.7	370.7	371.9	371.9	371.9	371.9
20°	365.5	368.1	369.4	370.7	371.9	371.9	373.2	374.5	374.5	373.2
22.5°	364.2	366.8	368.1	370.7	371.9	371.9	374.5	374.5	374.5	374.5
25°	363.0	365.5	368.1	370.7	371.9	371.9	374.5	374.5	375.8	375.8
27.5°	360.4	363.0	366.8	369.4	370.7	371.9	373.2	374.5	374.5	374.5
30°	356.5	360.4	364.2	366.8	368.1	369.4	370.7	371.9	373.2	373.2
32.5°	351.4	355.3	359.1	363.0	364.2	365.5	368.1	369.4	369.4	369.4
35°	346.3	350.1	354.0	357.8	359.1	360.4	363.0	364.2	365.5	365.5
37.5°	338.6	342.4	346.3	350.1	351.4	354.0	356.5	357.8	357.8	357.8
40°	327.0	333.5	338.6	342.4	343.7	346.3	347.6	350.1	350.1	350.1
42.5°	316.8	321.9	325.8	330.9	332.2	336.0	338.6	339.9	341.2	341.2
45°	305.2	310.4	314.2	318.1	319.4	321.9	324.5	325.8	327.0	328.3
47.5°	293.7	297.6	301.4	305.2	306.5	309.1	311.7	312.9	314.2	314.2
50°	279.6	283.4	287.3	291.1	292.4	295.0	296.3	297.6	298.8	298.8
52.5°	264.2	268.1	271.9	275.7	277.0	278.3	280.9	282.2	283.4	283.4
55°	248.8	252.7	255.2	259.1	260.4	261.6	262.9	265.5	266.8	265.5
57.5°	230.9	234.7	237.3	241.1	242.4	243.7	245.0	246.2	247.5	247.5
60°	211.6	215.5	219.3	221.9	223.2	224.4	225.7	227.0	228.3	228.3
62.5°	192.4	196.2	198.8	202.6	203.9	203.9	205.2	206.5	207.8	207.8
65°	173.1	177.0	178.3	182.1	182.1	183.4	184.7	186.0	186.0	186.0
67.5°	152.6	156.5	157.8	160.3	160.3	161.6	162.9	164.2	164.2	164.2
70°	133.4	134.7	137.2	138.5	139.8	139.8	141.1	142.4	143.6	142.4
72.5°	112.9	114.1	116.7	118.0	118.0	119.3	119.3	120.6	121.8	121.8
75°	92.3	94.9	96.2	97.5	98.8	98.8	100.0	101.3	101.3	101.3
77.5°	73.1	75.7	77.0	78.2	79.5	79.5	80.8	80.8	82.1	80.8
80°	56.4	57.7	59.0	60.3	61.6	61.6	62.8	64.1	64.1	64.1
82.5°	41.0	42.3	44.9	46.2	46.2	46.2	48.7	48.7	50.0	48.7
85°	28.2	29.5	32.1	33.3	34.6	34.6	34.6	35.9	37.2	35.9
87.5°	18.0	20.5	21.8	23.1	23.1	23.1	24.4	25.7	25.7	25.7
90°	10.3	10.3	11.5	12.8	12.8	14.1	14.1	15.4	15.4	15.4
92.5°	10.3	11.5	11.5	11.5	12.8	12.8	12.8	14.1	14.1	14.1
95°	87.2	62.8	35.9	28.2	24.4	24.4	23.1	24.4	23.1	23.1
97.5°	264.2	286.0	296.3	310.4	318.1	316.8	311.7	316.8	312.9	316.8
100°	375.8	396.3	411.7	415.5	423.2	427.1	441.2	451.5	456.6	463.0
102.5°	466.8	491.2	509.2	519.4	527.1	532.3	548.9	564.3	572.0	577.1
105°	550.2	575.9	597.7	607.9	616.9	622.0	640.0	657.9	669.5	675.9
107.5°	616.9	646.4	669.5	684.9	693.9	702.8	724.6	742.6	756.7	763.1
110°	677.2	706.7	731.1	749.0	759.3	768.2	792.6	813.1	828.5	836.2



TEST NUMBER: P393795

CATALOG NUMBER: I3-CL-50L840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	727.2	759.3	783.6	802.9	813.1	826.0	849.0	872.1	887.5	896.5
115°	768.2	801.6	827.2	847.8	859.3	870.8	897.8	920.9	936.3	942.7
117.5°	802.9	836.2	863.2	883.7	896.5	909.3	936.3	956.8	973.5	978.6
120°	831.1	864.4	891.4	914.5	927.3	938.8	964.5	986.3	1001.7	1005.5
122.5°	850.3	885.0	913.2	938.8	950.4	961.9	986.3	1008.1	1022.2	1026.0
125°	864.4	900.3	928.6	955.5	967.0	978.6	1001.7	1023.5	1035.0	1040.1
127.5°	873.4	909.3	940.1	965.8	978.6	988.8	1011.9	1031.2	1042.7	1046.6
130°	876.0	913.2	944.0	970.9	982.4	992.7	1014.5	1033.7	1044.0	1046.6
132.5°	876.0	911.9	944.0	969.6	981.1	991.4	1011.9	1029.9	1040.1	1042.7
135°	870.8	905.5	937.5	963.2	974.7	985.0	1005.5	1020.9	1031.2	1032.5
137.5°	861.9	895.2	926.0	951.7	963.2	973.5	991.4	1008.1	1017.1	1019.6
140°	850.3	881.1	911.9	936.3	947.8	956.8	974.7	988.8	997.8	1000.4
142.5°	834.9	865.7	893.9	918.3	927.3	937.5	952.9	967.0	974.7	977.3
145°	818.3	847.8	873.4	895.2	905.5	914.5	928.6	941.4	949.1	951.7
147.5°	796.5	826.0	850.3	870.8	879.8	888.8	901.6	913.2	920.9	923.4
150°	769.5	796.5	822.1	841.4	850.3	859.3	872.1	882.4	890.1	891.4
152.5°	742.6	768.2	790.0	809.3	818.3	827.2	838.8	849.0	858.0	858.0
155°	716.9	738.7	759.3	775.9	783.6	791.3	802.9	811.9	819.5	819.5
157.5°	690.0	710.5	727.2	742.6	749.0	755.4	765.7	773.4	779.8	778.5
160°	664.4	679.8	695.1	708.0	714.4	719.5	727.2	733.6	740.0	738.7
162.5°	636.1	650.3	663.1	672.1	677.2	681.0	688.7	695.1	699.0	699.0
165°	604.1	616.9	628.4	637.4	642.6	645.1	651.5	655.4	659.2	659.2
167.5°	570.7	581.0	591.3	598.9	604.1	606.6	613.1	615.6	620.8	619.5
170°	537.4	545.1	552.8	559.2	561.8	564.3	569.5	572.0	574.6	574.6
172.5°	510.5	513.0	516.9	522.0	522.0	523.3	525.8	527.1	528.4	528.4
175°	495.1	496.3	496.3	496.3	496.3	496.3	497.6	496.3	497.6	496.3
177.5°	488.7	488.7	487.4	487.4	486.1	487.4	486.1	484.8	484.8	483.5
180°	486.1	486.1	486.1	486.1	486.1	486.1	486.1	486.1	486.1	486.1

(END OF REPORT)